

S/N 10/775,462

Atty Dkt No. GP-304042/GM0456PUS

Listing of Claims

1. (original) A multi-speed transmission comprising:

an input shaft;

an output shaft;

first, second and third planetary gear sets each having first, second and third members;

said input shaft being continuously interconnected with a member of said planetary gear sets, and said output shaft being continuously interconnected with another member of said planetary gear sets;

a first interconnecting member continuously interconnecting said first member of said first planetary gear set with said first member of said second planetary gear set;

a second interconnecting member continuously interconnecting said second member of said first planetary gear set with said first member of said third planetary gear set;

a third interconnecting member continuously interconnecting said second member of said second planetary gear set with said second member of said third planetary gear set;

a first torque-transmitting mechanism selectively interconnecting a member of said first or second planetary gear set with a stationary member;

a second torque-transmitting mechanism selectively interconnecting a member of said second or third planetary gear set with said stationary member;

a third torque-transmitting mechanism selectively interconnecting a member of said second or third planetary gear set with said stationary member;

a fourth torque-transmitting mechanism selectively interconnecting a member of said first planetary gear set with a member of said second or third planetary gear set;

a fifth torque-transmitting mechanism selectively interconnecting a member of said second planetary gear set with a member of said first or third planetary gear set;

a sixth torque-transmitting mechanism selectively interconnecting a member of said first, second or third planetary gear set with another member of said first, second or third planetary gear set;

S/N 10/775,462

Atty Dkt No. GP-304042/GM0456PUS

a seventh torque-transmitting mechanism selectively interconnecting a member of said first, second or third planetary gear set with another member of said first, second or third planetary gear set, or with said stationary member;

said torque-transmitting mechanisms being engaged in combinations of two to establish at least eight forward speed ratios and at least one reverse speed ratio between said input shaft and said output shaft.

2. (original) The transmission defined in claim 1, wherein said first, second and third torque-transmitting mechanisms comprise brakes, and said fourth, fifth, sixth and seventh torque-transmitting mechanisms comprise clutches.

3. (original) The transmission defined in claim 1, wherein said first, second, third and seventh torque-transmitting mechanisms comprise brakes, and said fourth, fifth and sixth torque-transmitting mechanisms comprise clutches.

4. (original) The transmission defined in claim 1, wherein planet carrier assembly members of each of said planetary gear sets are single-pinion carriers.

5. (original) The transmission defined in claim 1, wherein at least one planet carrier assembly member of said planetary gear sets is a double-pinion carrier.

6. (currently amended) A multi-speed transmission comprising:

an input shaft;

an output shaft;

a planetary gear arrangement having first, second and third planetary gear sets, each planetary gear set having first, second and third coaxial members;

said input shaft being continuously interconnected with a member of said planetary gear sets, and said output shaft being continuously interconnected with another member of said planetary gear sets;

S/N 10/775,462

Atty Dkt No. GP-304042/GM0456PUS

a first interconnecting member continuously interconnecting said first member of said first planetary gear set with said first member of said second planetary gear set;

a second interconnecting member continuously interconnecting said second member of said first planetary gear set with said first member of said third planetary gear set;

a third interconnecting member continuously interconnecting said second member of said second planetary gear set with said second member of said third planetary gear set; and

seven torque-transmitting mechanisms for selectively interconnecting said members of said planetary gear sets with a stationary member or with other members of said planetary gear sets, said seven torque-transmitting mechanisms being engaged in combinations of two to establish at least eight forward speed ratios and at least one reverse speed ratio between said input shaft and said output shaft, wherein a first of said seven torque-transmitting mechanisms is operable for selectively interconnecting a member of said first or second planetary gear set with said stationary member, wherein a second of said seven torque-transmitting mechanisms is operable for selectively interconnecting a member of said second or third planetary gear set with said stationary member, wherein a third of said seven torque-transmitting mechanisms is selectively operable for interconnecting a member of said second or third planetary gear set with said stationary member.

7. (cancelled)

8. (cancelled)

9. (cancelled)

10. (original) The transmission defined in claim 6, wherein a fourth of said seven torque-transmitting mechanisms is selectively operable for interconnecting a member of said first planetary gear set with a member of said second or third planetary gear set.

11. (original) The transmission defined in claim 6, wherein a fifth of said seven torque-transmitting mechanisms is selectively operable for interconnecting a member of said second planetary gear set with a member of said first or third planetary gear set.

S/N 10/775,462

Atty Dkt No. GP-304042/GM0456PUS

12. (original) The transmission defined in claim 6, wherein a sixth of said seven torque-transmitting mechanisms selectively interconnects a member of said first, second or third planetary gear set with another member of said first, second or third planetary gear set.

13. (original) The transmission defined in claim 6, wherein a seventh of said seven torque-transmitting mechanisms selectively interconnects a member of said first, second or third planetary gear set with another member of said first, second or third planetary gear set or with said stationary member.

14. (original) The transmission defined in claim 6, wherein planet carrier assembly members of each of said planetary gear sets are single-pinion carriers.

15. (original) The transmission defined in claim 6, wherein at least one planet carrier assembly member of said planetary gear sets is a double-pinion carrier.